BENGALURU WEST CITY CORPORATION (ZONE-2)

DRAFT TENDER SCHEDULE

RAJAJINAGAR DIVISION

NAME OF WORK: COMPREHENSIVE DEVELOPMENT OF PLAY GROUND, WARD OFFICE BUILDING, ROADS AND DRAINS AT RAJAJINAGAR CONSTITUENCY PACKAGE-1

(5)

Bengaluru West City Corporation (Zone-2)

Draft Tender Schedule

Name of work:- Comprehensive Development of Play Ground, Ward Office Building, Roads and Drains at Rajajinagar Constituency Package-1

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
1	Removing and Refixing Stone Slabs of Drains and Pointing in C.M (1:2) Approved Rate	Sqm	11871.85	163.90	Rupees One Hundred Sixty Three And Paise Ninety Only
2	Earth work excavation by manual means In all kinds of soils Depth upto 1.5 m for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.	Cum	5787.36	266.20	Rupees Two Hundred Sixty Six And Paise Twenty Only
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates	Cum	2464.35	6959.70	Rupees Six Thousand Nine Hundred Fifty Nine And Paise Seventy Only
4	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.	Sqm	538.65	1287.00	Rupees One Thousand Two Hundred Eighty Seven Only
5	Providing B S slabs of Selected quality roughly dressed having a Size of 10cms thick and fixed in cement mortor (1:6) Including fixing curing etc., Complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges) Approved Data Rate	Sqm	4549.28	828.00	Rupees Eight Hundred Twenty Eight Only
6	Providing One line dressing to granite stone/granite stone masonry as per specifications as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges) Approved Data Rate	Sqm	4549.28	120.00	Rupees One Hundred Twenty Only
7	Machine cutting to granite stone slabs edge all four sides to get plain even surface, the work includes cutting blades, hire charges of cutting machine, Hire charges of generator, labour charges for cutting hedge. Data rate	m	25273.80	80.00	Rupees Eighty Only
8	Removing and resetting of precast kerb stones fixed with CM 1:3 fixed and finished in line as per direction of Engineer in charge. (The cost of PCC shall be paid extra)	m	7147.70	38.50	Rupees Thirty Eight And Paise Fifty Only
9	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete., complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)	Nos	21127.33	459.00	Rupees Four Hundred Fifty Nine Only
10	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead	Sqm	2733.00	6.60	Rupees Six And Paise Sixty Only
11	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m	Cum	9138.06	112.20	Rupees One Hundred Twelve And Paise Twenty Only

No of corrections NIL

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
12	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-Base Plant Mix Method Grading V. Materia.	Cum	409.95	2735.70	Rupees Two Thousand Seven Hundred Thirty Five And Paise Seventy Only
13	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	Cum	5619.49	2814.90	Rupees Two Thousand Eight Hundred Fourteen And Paise Ninety Only
14	Prime Coat over WMM/WBM Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.	Sqm	67784.68	45.10	Rupees Forty Five And Paise Ten Only
15	Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction	Cum	3389.23	8427.10	Rupees Eight Thousand Four Hundred Twenty Seven And Paise Ten Only
16	Providing and applying tack coat with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom	Sqm	112730.85	13.20	Rupees Thirteen And Paise Twenty Only
17	Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects	Cum	4499.23	12049.40	Rupees Twelve Thousand Forty Nine And Paise Forty Only
18	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.	Sqm	6686.88	583.00	Rupees Five Hundred Eighty Three Only
19	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.(Tipper 14 m3)	Cum	7317.36	94.60	Rupees Ninety Four And Paise Sixty Only
20	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 250 t.km	t/km	19188.42	77.00	Rupees Seventy Seven Only
21	Providing Tensile Roofing 4m ht cantilver type Which includes Supply, fabrication & erection of MS structure including columns, rafters, purlins, connecting plates, gusset plate, base plate, anchor bolt etc of Primary supporting steel structure will be fabricated from MS Structural steel tubular sections (Yield Strength 210) of make TATA, Apollo, Jindal, Loha or other equivalent with 1 coat Anti-corrosion treatment followed by one coat of priming with Enamel primer followed by two coats of Enamel paint of makes Asian/Berger/ICI. Color code as approved and Patterning, seaming. supply & fixing of PVDF coated polyester Valmex Mehatop FR 900 Type II or Serge 1 Ferrari 902S2 fabric. Both sides PVDF lacquered. Protected against microbial and fungal attack and UV Protected & accessories. Supply & fixing of Aluminum extrusions for clamping fabric to surface of steel structure with bolts for fixing. bitumen or silicon washers to ensure water tightness Supply & fixing of Galvanized accessories which includes Cables, End plates, Sockets. Tensioners & Hardwares. Analysis and Design of membrane, erection and tensioning inclusive of all taxes with all leads and lift	Sqm	1712.80	11218.00	Rupees Eleven Thousand Two Hundred Eighteen Only

No of Structural Nil

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
22	Supply of LED floodlight luminaire with pressure diecast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising ofanti glare clear diffuser with Injection moulded polycarbonate/clearglass material, delivering superior light output Rated life Burning Hrs 50000hr@Lumen Maintenance of70%, CCT> 5500K, IP66 optical and electrical compartment &impact resistance of complete luminaire > IK08. Power Factor >0.9with mains,Surge Protection-Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mauling withouter dia of 40mmto50mm.Universal Voltage driver to operate wide voltagerange from 100Vto270V50/60Hzapplication. CompliancetoIS10322/IEC60598, LM79 &LM80Adherence with RoHS. ULapproved MCPCB.Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LEDLight fixturewith.....W System Power consumption.LEDEfficiency>1301m/w, nominalCRI>75.Luminaire manufacturershouldhavein-housefacilityaccredited byNABL/CPRI &any Governmentcertified agency &Design &Development facility certified by ISO9001:2008 Housing with supplier word mark / name shall be Engraved /	Nos	60.00	18581.00	Rupees Eighteen Thousand Five Hundred Eighty One Only
23	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	60.00	189.00	Rupees One Hundred Eighty Nine Only
24	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments, .10 sq mm	m	600.00	157.00	Rupees One Hundred Fifty Seven Only
25	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975.16 Sqmm, 4 Core,	km	1.17	141842.00	Rupees One Lakh(s) Forty One Thousand Eight Hundred Forty Two Only
26	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	12.00	4843.00	Rupees Four Thousand Eight Hundred Forty Three Only
27	Supplying heavy gauge PVC conduit pipe ..... mm dia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. 32 mm dia 2.5 mm thick .	m	1100.00	103.00	Rupees One Hundred Three Only
28	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100 Volts as per IS-694:1990 .6C x 2.5 mm2	m	500.00	272.00	Rupees Two Hundred Seventy Two Only
29	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss- wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of70%, maximum light intensity should be between 60 degrees	Nos	49.00	8860.00	Rupees Eight Thousand Eight Hundred Sixty Only
30	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1500mm Standard 40/50MM dia	Each	49.00	2100.00	Rupees Two Thousand One Hundred Only
31	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	49.00	162.00	Rupees One Hundred Sixty Two Only
32	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments, .10sq mm	m	700.70	167.00	Rupees One Hundred Sixty Seven Only
33	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff LT CABLE	km	0.07	20886.00	Rupees Twenty Thousand Eight Hundred Eighty Six Only

No of corrections NIL

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
34	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work.	Cum	71.50	532.40	Rupees Five Hundred Thirty Two And Paise Forty Only
35	Fabricating, supplying and erecting Swaged tubular Pole of height ...m having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the Pole(as per IS) and 40 mm dia GI/flexible PVC pipe of 1m length fitted to the heavy gauge polycarbonate control box including 5 Way connector of size 167 x 125 x 82 mm for 7.5M Pole/ 200 x 160 x 98 mm for remaining length of Pole with front opening cover, with locking arrangements and suitable capacity MCB/DP switch, The Pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the Pole to the ground level and the coping CC shall be upto 0.6m above ground level as per IS2713-7. Erection of heavy duty Pole on Footpath/median 10m (5m Hb,165.1 mm dia 4.85 mm thick x 3m Hm, 139.7 mm dia 4.50 mm thick x 2m Ht,114.3 mm dia 3.65 mm thick) as per IS 410 SP 47	Each	49.00	19100.00	Rupees Nineteen Thousand One Hundred Only
36	Supplying heavy gauge PVC conduit pipe ..... mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. 40 mm dia 2.5 mm thick	m	490.00	147.00	Rupees One Hundred Forty Seven Only
37	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100V as per IS- 694:2010. 3C X 1.5 mm2	m	588.00	72.00	Rupees Seventy Two Only
38	Supplying 1.1kV,LT Aerail Bunched Cable,XLPE insulation confirming to IS-4255:1995(3x16+1x25+1x16 sqmm Street Light(Insulated Messenger cum Neutral)	km	1.00	108767.00	Rupees One Lakh(s) Eight Thousand Seven Hundred Sixty Seven Only
39	Cross Arms(MS & GI)as per IS-1977 11kV,Horizontal Cross Arm-Mild Stee;(MS)(Dwg No.Bescom/GM/QS & S/04 Dtd 24.11.2018)	Nos	49.00	372.00	Rupees Three Hundred Seventy Two Only
40	Dead End Clamp/Anchor Clamp Assembly 16 to 70 Sqmm Bare Messenger (Exclusive of Pole Clamp and Eye Hook)	Set	49.00	232.00	Rupees Two Hundred Thirty Two Only
41	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. in ordinary/soft rock without blasting upto 1.5 m depth	Cum	59.94	532.40	Rupees Five Hundred Thirty Two And Paise Forty Only
42	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates	Cum	8.99	6509.80	Rupees Six Thousand Five Hundred Nine And Paise Eighty Only

No of corrections NIL

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
43	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates	Cum	15.98	6782.60	Rupees Six Thousand Seven Hundred Eighty Two And Paise Sixty Only
44	Supplying and fixing camera pole 6 mts	Each	74.00	12750.00	Rupees Twelve Thousand Seven Hundred Fifty Only
45	Supply Installation, Testing and commissioning of pole/wall mounted 2 MP out door IP day night Ver-Focal Bullet camera made out of Hard plastic body confirming to IP67 weather proofing with CMOS 1.0 inch image sensor image resolution HD 1920x1080 pixels veri lense, IR range of 30 mtr or more,auto zoom and auto exposure..focal length of 2.8 to 12 at 25 fps frame rate,Dual compressed video streeming suitable to operate on 12 volt DC supply at -25 degree to + 50 centigrade temperature with 95% relative humidity along with necessery fixing materials etc complete (Hikvission model DS-2CD1621 FWD-I OR Equivelent)(GEM-1-5116877-19839969643)	Each	74.00	12419.95	Rupees Twelve Thousand Four Hundred Nineteen And Paise Ninety Five Only
46	Supply Installation, Testing and commissioning of pole/wall mounted 4 MP out door IP day night Veri-Focal Bullet camera made out of Hard plastic body confirming to IP67 weather proofing with CMOS 1.0 inch image sensor image resolution HD 1920x1080 pixels veri lense, IR range of 30 mtr or more, auto zoom and auto exposure,,focal length of 2.8 to 12 at 25 fps frame rate,Dual compressed video streeming suitable to operate on 12 volt DC, POE supply at -25 degree to 50 centigrade temperature with 95% relative humidity along with necessery fixing materials etc complete (Hikvission model DS-2CD1641FWD-I OR Equivelent)(GEM-1-5116877-41803742350)	Each	74.00	16419.59	Rupees Sixteen Thousand Four Hundred Nineteen And Paise Fifty Nine Only
47	Supply ,Installation, Testing and commissioning of Rack mounted Thirtytwo channel Network Video Recorder (NVR) made out of Alluminium body confirming to IP66 weather proofingsupporting IP.PTZ image resolution HD 1280x1080 pixels, Recording speed of at 25 fps frame rate or more, Having HDMI,VGA,Bluetooth interface facility, Multi playback options, SATA1 HDD recording support and suitable to operate on 230 volt,50 hzs AC, supply at 10 degree to + 50 centigrade temperature along with necessery fixing materials etc complete (Hikvission model DS-7P32NI-K4 OR Equivelent)(GEM-1-5116877-61817249881)	Each	8.00	51925.25	Rupees Fifty One Thousand Nine Hundred Twenty Five And Paise Twenty Five Only
48	Supply Installation Testing and commissioning of Rack mounted Twenty four channel Power Over Ethernet(POE) Ethernet network managed Switch with 2 SFP made out of Alluminium body confirming to IP66 weather proofing at -10 degree to . 50 centigrade temperature along with necessery fixing materials etc complete (Netgear GS724TP OR Equivelent)(GEM-1-5116877-93984152022)	Each	8.00	34803.95	Rupees Thirty Four Thousand Eight Hundred Three And Paise Ninety Five Only
49	Supply Installation, Testing and commissioning of Rack mounted Ten Terrabyte (10 TB) 7200 rpm SATA1 hard disk drive (HDD) along with necessery fixing materials etc complete (Western Digital WD WD40PURZ OR Equivelent) (GEM-1-5116877-77514303873)	Each	8.00	41698.56	Rupees Forty One Thousand Six Hundred Ninety Eight And Paise Fifty Six Only
50	Supply Installation, Testing and commissioning of Rack mounted 12 volt Dc8 amps, 16 channel CCTV camera power supply unit with over voltage, short circuit and surge protection suiteble to operate on 230 volt 50 Hzs AC supply(GEM-I-5116877- 12055192319)	Each	15.00	2792.74	Rupees Two Thousand Seven Hundred Ninety Two And Paise Seventy Four Only

No of corrections NIL

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
51	Supply Installation, Testing and commissioning of Rack mounted Fiber optic media converter along with necessery fixing materials etc complete (D-Link model DEF-855S-15i OR Equivelent)(GEM-I- 5116877-3642852680)	Each	16.00	4651.00	Rupees Four Thousand Six Hundred Fifty One Only
52	Supply and fixing LC/PC TO LC/PC Single mode Simplex patch cord 1 Mtr ngth(GEM-I-5116877-28079315215)	Each	48.00	308.74	Rupees Three Hundred Eight And Paise Seventy Four Only
53	Supply and fixing SC to SC Fiber patch cord 3 Mtr Length(GEM-I-5116877-36000691868)	Each	32.00	350.85	Rupees Three Hundred Fifty And Paise Eighty Five Only
54	Supply Installation, Testing and commissioning of 24 inch LED computer monitor suiteble to operate on 230 volt 50 Hzs AC supply (Hp make or Equivelent). (GEM-I-5116877-24797872332)	Each	8.00	29048.67	Rupees Twenty Nine Thousand Forty Eight And Paise Sixty Seven Only
55	Supply Installation, Testing and commissioning of 55 inch LED Large format display smart television of repute make suiteble to operate on 230 volt, 50 Hzs AC Suplly (Samsung make PMH or Equivelent)	Each	8.00	89816.66	Rupees Eighty Nine Thousand Eight Hundred Sixteen And Paise Sixty Six Only
56	supply and fixing of 24f opticle fibre cable splice clouser for for overhead transmission using necessery clamps bolts etc complete (GEM-I-5116877-33009245291)	Each	15.00	1133.23	Rupees One Thousand One Hundred Thirty Three And Paise Twenty Three Only
57	Supply Installation, Testing and commissioning of indoor 47-63 Hz frequency, 25 KA, class B type 1 two port SPD lightning surge protector confirming to IP20 on existing board using necessery screws, wires etc complete. (GEM Item code-5116877- 74097293402)	Each	8.00	12630.47	Rupees Twelve Thousand Six Hundred Thirty And Paise Forty Seven Only
58	Supply Installation, Testing and commissioning of Omni Directional High gain Directional Radio Antenna of 5Ghz freequency with 30 dbi Gain ,operating freequency of 5825-5875 Mhz, Vertcle Azimuth at 20 degree and Horizantal Azimuth at 60 degree, Impedence at 20 ohms consuming 1 watt max power using necessery	Each	8.00	40698.47	Rupees Forty Thousand Six Hundred Ninety Eight And Paise Forty Seven Only
59	Supply and drawing 3+1 PVC insulated Shielded 0.4 mm dia copper cable confirming to TEC specifications G/W1R06/02 2 pair cable for CCTV system in existing pipe, duct using necessary clamps bolts etc complete IGEM-I-5116877-227248947840	m	29656.00	54.50	Rupees Fifty Four And Paise Fifty Only
60	Supply and drawing 6F Armoured Optical Fiber cable in Existing pipe, Duct using necessary clamps bolts etc complete (GEM-I-5116877-70580514194)	m	59312.00	69.07	Rupees Sixty Nine And Paise Seven Only
61	Supplying, erecting, testing & commissioning of OFF- LINE UPS system suitable for operation on 230V, 50Hz, A/C supply, with all accessories complete and Excluding batteries and wiring complete. 9.2.5 5 kVA OFF LINE UPS	Each	5.00	39898.00	Rupees Thirty Nine Thousand Eight Hundred Ninety Eight Only
62	Supplying, installation, testing & commissioning of 12V ..AH batteries in poly propylene container for D.G. sets. Low maintenance batteries, plate type. 9.4.7 200 AH capacity	Each	5.00	34701.00	Rupees Thirty Four Thousand Seven Hundred One Only
63	Ambedkar Bronze Transportation and installation of Bronze statue of Ambedkar statue of height 7 feet, 3 feet width in Manufacturing, proportion with the height of approximate weight 1800 kgs, It including preparation of statue casting moulding, fiber moulding, sand blasting, oxidizing lakering complete as per specification with all lead as lift, loading and unloading charges complete as carried out as per specification as per the instructions of the Engineer-in-charge of the works it including all takes. Ambedkar STATUE Statue(Data Rate)	Nos	1.00	3500000.00	Rupees Thirty Five Lakh(s) Only
64	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In Ordinary/Soft rock upto 300 mm depth.	Cum	325.19	398.20	Rupees Three Hundred Ninety Eight And Paise Twenty Only

No of corrections NIL

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
65	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site,laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	Cum	256.73	2814.90	Rupees Two Thousand Eight Hundred Fourteen And Paise Ninety Only
66	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)- Mix 1:3:6(M10) Using 20 mm nominal size graded crushed coarse aggregates-	Cum	128.40	6849.70	Rupees Six Thousand Eight Hundred Forty Nine And Paise Seventy Only
67	Providing and laying 80mm thick factory made precast M -30 grade Cement Concrete Paver Block as per IRC SP 63:2018 & IS 15658 for Commercial Traffic Axle load repetitions upto 10MSA & for Residential Streets of approved shape and colour, laid in required pattern and including over 40mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (WMM/WBM Base to be paid separately as per relevant technical specification).	Sqm	855.75	1277.10	Rupees One Thousand Two Hundred Seventy Seven And Paise Ten Only
68	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead Rubble stone masonry in cement mortar.	Cum	405.00	671.00	Rupees Six Hundred Seventy One Only
69	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m	Cum	1125.00	112.20	Rupees One Hundred Twelve And Paise Twenty Only
70	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.2.1.2 Mix 1:4:8 Using 40 mm nominal size graded crushed coarse aggregates	Cum	67.50	6167.70	Rupees Six Thousand One Hundred Sixty Seven And Paise Seventy Only
71	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.H. All other type of structures	Tonne	33.48	76723.90	Rupees Seventy Six Thousand Seven Hundred Twenty Three And Paise Ninety Only
72	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	418.50	9238.19	Rupees Nine Thousand Two Hundred Thirty Eight And Paise Eighteen Only
73	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	Sqm	360.00	3132.80	Rupees Three Thousand One Hundred Thirty Two And Paise Eighty Only

No of corrections NIL

Sl No	Description of Items	Unit	Quantity	Rate	Rate in Words
74	Providing and fixing Steel work welded in built up sections/ framedwork, including cutting, hoisting, fixing in position and applying a primingcoat of approved steel primer using structural steel etc. as required. Ingratings, frames, guard bar, ladder, railings, brackets, gates and similarworks including cost of materials, labour, usage charges of machinerycomplete as per specifications and as per directions of the Engineer-inCharge.	Kgs	558.00	149.60	Rupees One Hundred Forty Nine And Paise Sixty Only

Total No of Corrections Nil

"DTS Approved"

ಮುಖ್ಯ ಅಧಿಯಂತರರು (ಮಲ್ಲೇಶ್ವರಂ ವಲಯ)
ಬೆಂಗಳೂರು ಪಶ್ಚಿಮ ನಗರ ಪಾಲಿಕೆ

Executive Engineer
Rajajinagar Division
Bangalore